

Cairo Air Improvement Project Vehicle Emissions Testing Component

EEAA VET Field Operations Part 1 On Road Testing-Low Emissions Tune Up (ORT-LETU)

Chemonics International, Inc.
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EEAA VET FIELD OPERATIONS PLAN

STAFFING

The EEAA has hired adequate staff to provide for the oversight and operations of the ORT and Phase I LETU programs. These personnel will be in charge of the day to day organization and continuation of efforts initiated by CAIP to provide the first steps toward implementation of a VET program. They will perform field emissions testing and fleet data collection resulting from the investments made to work with the oil companies and Traffic Authorities in testing in-use vehicles throughout greater Cairo.

Attachment 1 contains position descriptions for these personnel. The organization is one of a headquarters based manager (VET ORT Manager), two assistants (one in Field Operations and one in Data Processing) and 27 Field Inspectors. Eventually, these people will form the core of the final VET network program oversight forces. It is imperative that the duties described in Attachment 1 be clearly transmitted and undertaken by the current EEAA employees immediately to begin with a solid foundation for the final program staff. Should EEAA already have position descriptions in place, CAIP would suggest a review of those in light of the information presented here and a concerted effort by EEAA upper management to see that the current staff are fulfilling the tasks assigned to them.

Attachment 2 includes information pertaining to the scheduling of EEAA resources to maintain the field oversight and data collection now being supplemented with CAIP resources. The field oversight schedule demonstrates the realistic manpower requirements to accomplish over sight of the field operations and shows that the new EEAA resources can effectively manage and accomplish this mission. CAIP suggests a formalized schedule with milestones be established and exercised with periodic reviews to judge personnel and network performance.

SUPPORT

<u>Data Processing</u> – One of the critical elements of both the ORT and LETU programs is the collection and analysis of the test results. These data will provide key information to assure a smoother VET program start-up through the ability to set realistic pass/fail criteria based on actual fleet performance. As such, collection, reduction and manipulation of the data and the subsequent reporting of results must be continued by EEAA. Attachment 3 lists the physical resources required to maintain the efforts initiated by CAIP.

The attachment lists the data processing equipment required and the timetable that must be met by EEAA to assure continuity in the program and avoid wasting the monies spent thus far to start both programs. Also included is a description of the type of reports that will result from EEAA's program.

<u>Supplies and Maintenance</u> – In addition to the process of collecting the data being gathered by both the oil companies and the EEAA/Traffic Authority teams, EEAA must assume control of the both the equipment and consumables needed to maintain the field efforts. While the ORT program is wholly within the control of the agency, EEAA must review and act upon their contracts with the oil companies to exercise continued control over the LETU activities now underway.

There are two activities for which EEAA must initiate control:

1. Since CAIP will cover reasonable consumable supplies and routine maintenance for the equipment until the end of the current fiscal year, EEAA must include within the next agency operating budget, adequate funds to maintain the effort beyond June. Attachment 4 delineates the expected supply costs associated with annual operations of the ORT program. The assumptions for the activity levels are included within the attachment. These costs will need to be supplemented with any equipment maintenance costs that will be better defined as operations continue. CAIP will monitor these costs and determine an expected amount as the field experience continues. Note that continued production of forms and other materials may be less expensive than the original production runs so the costs shown are probably higher than needed but are based on the best current information.

2. The oil companies agreed to assume continuing maintenance and supply costs associated with the operation of the analyzers loaned to them by EEAA through CAIP. The terms of these agreements are such that soon, some of the equipment will become the responsibility of the companies. The schedule of the actual placement of the equipment has resulted in this take-over happening over the next few months. Attachment 5 lists these resources and the terms of the current agreements. CAIP will continue to work with the EEAA headquarters staff and the oil companies to assure the smooth transition or relocation of equipment as appropriate.

In both programs, EEAA will want to continue to exercise control over the data collection and review. In this way the agency can insure the quality of and access to the testing data. EEAA should also retain approval rights and in some cases, supply of materials shared with motorists about the emissions testing programs. This is an excellent opportunity for the agency to use these channels to impart its own messages about clean air and the environment to Cairo motorists and the repair industry – both of which are critical elements of the vehicle emissions control solution.

It is important to note that the current EEAA staff will form the core of the long term VET support group within the agency and so should be critically evaluated with this future role in mind. This group will be the foundation for the EEAA staff needed under the initial pilot testing program. When the full VET testing network is put in place, these individuals will then either be redirected or supplemented with appropriate staff to accomplish the program oversight mission required to maintain the private sector participation in both the testing and repair processes. As such, these first field operations and headquarters management and data processing tasks provide an excellent opportunity to the agency to begin to build a cadre of technically qualified and properly trained individuals. These people should eventually be tasked with managing the much larger VET program when it becomes operational.

Attachment 1 VET ORT Job Descriptions

VET ORT Manager

REPORTS TO EEAA VET PROGRAM MANAGER

DUTIES AND RESPONSIBILITIES

- Manage and coordinate the operation of the on-road testing (ORT) program within budget and in accordance with the policies and procedures of the EEAA.
- Assume responsibility for any continued operation of the Tune-Up Phase I program
 providing for vehicle testing within the oil company service outlets.
- Schedule work assignments to ensure proper staffing for all on-road and traffic authority facility testing and support of the oil company program.
- Schedule ORT program assistants so that the Manager or an assistant are accessible during all times that public ORT inspections are being conducted.
- Assist in coordinating visits to and conducting tours of the ORT field efforts or oil company facilities during the period of testing.
- Hire competent field and HQ personnel and provide for in-depth HQ and on-thejob training to each employee as well as periodic re-training found to be required through routine quality assurance reviews of data gathered by EEAA and the oil companies.
- Provide for all appropriate employee services granted by EEAA are available to all ORT staff and that they are provided with all personnel benefits, agreements, evaluations, etc. by the agency.
- Understand general vehicle emissions concepts and the function of selected vehicle emission control devices.
- Assure the complete review and data reduction of all information gathered as a result
 of testing (both ORT and oil company testing). Maintain test results database that is
 current and provide routine reports of findings in a timely fashion.
- Provide for proper administration and control of data forms, supplies, and parts inventory with the appropriate HQ assistant and equipment supplier. Report weekly and monthly operation activity and extraordinary activity to the EEAA VET Program Manager in a timely manner.
- Coordinate general equipment maintenance with appropriate program assistant and contracted equipment service company.
- Assure performance of basic maintenance and repair of inspection equipment, and verify scheduled regular equipment maintenance.
- Foster positive employee morale and ensure good public relations between employees, traffic authority personnel, oil company representatives, local service station staff and vehicle owners.
- See that an effective employee safety and training program is implemented and maintained to maximize safe field operations for ORT.

Perform other tasks as assigned by EEAA VET Program Manager.
QUALIFICATIONS -
 Bachelor's Degree in Business Management or related field. Supervisory experience is required.
Good oral and written communication skills are required.
 Previous motor vehicle experience desirable. Ability to read and write English sufficiently well to deal with equipment technical manuals and routine reporting requirements to CAIP and US AID is required.

ORT Program Assistant A - Field Operations

REPORTS TO VET ORT MANAGER

DUTIES AND RESPONSIBILITIES:

- Assist with management of the On-Road testing (ORT) and Tune-Up Phase I programs in accordance with EEAA policies and procedures.
- Assist the ORT Program Manager in initiating and operating ORT and oil company vehicle testing efforts.
- As scheduled and directed by the ORT Program Manager, actively supervise all field data collection efforts.
- Monitor ORT field operations including personnel assignments, productivity, data quality, equipment distribution and maintenance/repair.
- Provide regular feedback to all field operators regarding the information they submit.
- Monitor oil company testing program including equipment distribution and maintenance, data collection and review, training and re-training as required.
- Ensure safety and protection for motorists and employees in the ORT Program.
- Share accountability for all field inspection operations, including, but not limited to, property, equipment, work schedules (for ORT only), financial matters, etc.
- Assume responsibilities for the ORT Program Manager in his absence if designated to do so.
- Assume responsibilities for the ORT Program Assistant B in his absence if designated to do so by the ORT Program manager.
- Ensure good public relations between employees, the traffic authority personnel, oil company representatives and motorists.
- Assist ORT Program Manager in preparing equipment, and inspectors for visitors and tours of the field operations during the period of testing.
- Implement field safety and training program to maximize safe operations, a safe workplace for employees, customer safety, and effectively trained personnel.
- Perform other tasks as assigned by ORT Program Manager.

QUALIFICATIONS

- Bachelor's Degree in Engineering or related field.
- Some supervisory experience preferred.
- Good communication and customer service skills are required.
- Possession of a valid driver's license.
- Able to read and write English sufficiently well to deal with equipment technical manuals and reporting requirements of sponsoring agencies.

ORT Program Assistant B - Data Processing

REPORTS TO VET ORT MANAGER

DUTIES AND RESPONSIBILITIES:

- Assist with management of the On-Road testing (ORT) and Tune-Up Phase I
 programs in accordance with EEAA policies and procedures.
- Assist the ORT Program Manager in initiating and operating ORT and oil company vehicle testing efforts.
- As directed by the ORT Program Manager, supplement field supervision and data collection efforts of Assistant A.
- Perfom review of all field data collected (ORT and Tune-Up Phase I) and provide complete and timely reduction of all data.
- Provide routine and special reports from field data using appropriate data processing techniques to yield clear, concise and accurate information for program management and to show findings as required.
- Through routine review of ORT field data, produce reports and information on productivity, data quality, equipment distribution and maintenance/repair.
- Monitor oil company testing program through review and reduction of field data and recommend active steps (such as modification to initial training or re-training) to improve or maintain quality standards as required.
- Routinely perform analyses of all collected data using tools such as statistical quality control techniques to identify individual facilities or personnel whose performance is below expectations.
- As scheduled and directed by the ORT program Manager, actively supervise the field inspection operations.
- Assume responsibilities for the ORT Program Manager in his absence if designated to do so.
- Assume responsibilities for the ORT Program Assistant A in his absence if designated to do so.
- Perform other tasks as assigned by ORT Program Manager.

QUALIFICATIONS

- Bachelor's Degree in Statistics, Computer Science, Engineering or related field.
- Good general computer, communication and customer service skills are required.
- Experience in database management and some supervisory experience preferred.
- Possession of a valid driver's license.
- Able to read and write English sufficiently well to deal with software technical manuals and reporting requirements of sponsoring agencies.

ORT Field Inspector

REPORTS TO ORT PROGRAM ASSISTANT A

DUTIES AND RESPONSIBILITIES:

- Cooperate with traffic authority personnel assigned to direct vehicles into position for testing.
- Pre-inspect vehicle for safety and ensure that the engine conditions allows accurate testing.
- Follow specific test procedures as they apply.
- Take data from motorist and enter it into the data sheets.
- Perform the vehicle emissions inspection consistent with policies and procedures.
- Accurately record test results
- Provide test results and general program information to motorists.
- Explain test results as required.
- Maintain clean appearance consistent with policies and procedures.
- Perform other tasks as assigned by program management.

QUALIFICATIONS

- High school graduate or equivalent.
- Must be able to read and write proficiently in Arabic and have basic English skills required to operate test equipment and record data accurately.
- Must be able to communicate effectively and politely with the general public.
- Must be 18 years old.

Attachment 2 ORT Visit Schedule

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요동	Tasi	Duration 1 0.2 days	MI I	M - W	PA 1[20%]		M I M C C J I	I MCC I I	0 L - M	And I land C	0011		<u>.</u>	l Micolo
2		0.2 days			11/04	PA 1[25%]						18:00:00:00	-	
 	Road 3					18/04					3			
8	Cairo Ismailya Desert Road 4	0.2 days					PA 1[20%] 26/04					alatana andropologica (ala		
ਲ	Cairo Ismailya Desert Road 5	0.2 days	···				dahalaha many tahan mana	PA 1[20%] 02/05 			······································	· · · · · · · · · · · · · · · · · · ·	-	
88	Cairo Ismailya Desert Road 6	0.2 days	T Tol I I T - MAI Now Industrials						PA 1	PA 1[20%] 9/05 				-
8	Cairo/ Ismailya Desert Road 7	0.2 days	o en abades - rabero en esta en escala en						til sågel seller gåg denne men gere me		PA 1[20%] 16/05]			
37	Cairo/ Ismailya Desert Road 8	0.2 days					PTI I SHE I For All Mode					PA 1[20%] 23/05 		
88	Cairo/ Ismailya Desert Road 9	0.2 days	1.186 to 10.184.co to						Madeina I e de la		4 		30/08	PA 1{20%] 0/05]
88	Cairo/Suis desert Road	38.2 days	PA 1[25%] 04/04		PA 1[20%] 11/04	PA 1[25%] 18/04	PA 1[25%] 26/04	PA 1[25%] 02/05	PA 1	PA 1[25%] 9/05 	16/05	23/05	30/06	
\$	Cairo/Suis desert Road	0.2 days	PA 1	PA 1[25%] 4/04]			ades ann an	E. of soldbloom	T		whom	Albert III. III. II		
4	Cairo/Suis desert Road	0.2 days			PA 1[20%]				911-1-984 - 164 - 3 III		www.com.com.com	NI IVANIA II II NAMA ANA INA II A		
42	Cairo/Suis desert Road	0.2 days				PA 1[25%] 18/04			Made			da a (w ine p ₁ , 1) a		
43	Cairo/Suis desert Road	0.2 days	TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE				PA 1[25%] 26/04				alleria emplej fil i di calabangun	Part of the second seco	and diller, having a	
4	Cairo/Suis desert Road 5	0.2 days				•••••••••••		PA 1[25%] 02/05				· ·· · · · · · · · · · · · · · · · · ·		
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45		0.2 days		,			- 1	PA 1[25%] 09/05	nend Marie - a radimental force		 	
94	6 Cairo/Suis desert Road 7	0.2 days		٠.					16/05	· · · · · · · · · · · · · · · · · · ·	-	
47	7 Cairo/Suis desert Road 8	0.2 days				······································				23/05		
8	B Cairo/Suis desert Road 9	0.2 days				WAS NOT A MANAGEMENT				NI S OF THE PERSON IN SHIPPE	30/08	
85	8 Cairo/Pilpis desert Road	38.2 days	PA 1[25%] 04/04	PA 1[20%] 11/04	PA 1[25%]	PA 1[25%] 26/04	PA 1[25%] 02/05	PA 1[25%] 09/05 [16/05	23/05	30/02	
59	Cairo/Pitpis desert	0.2 days	PA 1[25%] 04/04		•. ••	an i gyawa sa ya sayana sa sa daba sa		Halfflife to Transmission of the			_	
8	Cairo/Pilpis desert Road 2	0.2 days		PA 1[20%] 11/04		THE RESIDENCE OF THE PROPERTY		- Harritanden and and	n — 10 — 11 days (days of the common	•		
5	Cairo/Pilpis desert	0.2 days			PA 1[25%] 18/04	Halballikkal of observancessons	***************************************	encarror and a summ	121	Manufacturing promotion		
62	Catro/Pilpis desert Road 4	0.2 days	. es estados de sobre			PA 1[25%] 26/04	<u>-</u>	odada o oda o Nasamada	The state of the s			
8	Cairo/Pilpis desert Road 5	0.2 days	de III (aastisjanse kaa			omiumoumit, soon a 45-46	PA 1[25%] 02/05 	tagan kalifaran managan ayan yan yan ya				
2	Cairo/Pilpis desert Road 6	0.2 days	I Prince Manager of		M			PA 1[25%] 09/05				
9	Cairo/Pilpis desert Road 7	0.2 days	MAIN IN THE COLUMN						16/05			
8	Cairo/Pilpis desert Road 8	0.2 days	hik						teriorales regions: 11 Miles to André	23/05	1 8 -1804 9 8-1	
67	Cairo/Pilpis desert Road 9	0.2 days									30/05	
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2		Duration	03 Apr	10 Apr	17 Apr	Z4 Apr F S S M T W	01 May	MTIF S	May SMTWT	15 May FSMTW	T F S S M	WIFFS	9 May S M T
9 8	El-Katamya Check	s Á	PA 1[25%]	PA 1[20%]	PA 1[25%]	PA 1[20%] 26/04	PA 1[25%] 02/05	PA 1[25%] 09/05	25%] 16	16/05	23/05	30/05	
8			an an annual for a particular and	· .						gerländig til Statistick skriver		-	
20	El-Katamya Check Point 1	0.2 days	PA 1[25%] 04/04					s co		Allend A. Allender of the Supplemental State	<u> </u>		
2	El-Katamya Check Point 2	0.25 days	A region of the contract of	PA 1[20%]		to been selected and the selected and th		ide waaring de meet de lee		Hart dy annual control		+	
22	El-Katamya Check Point 3	0.2 days		• • • • • • • • • • • • • • • • • • •	PA 1[25%] 18/04	-there -there takenson	MANAY - WW - III -	Marie and the second se		ndiğin biya diği birdi ve meşipilik ind		<u> </u>	<u>. </u>
73	El-Kalamya Check Point 4	0.2 days	ogo pos diferibles on			PA 1[20%] 26/04		ingen er e som oppgyger om er elle ed		1-100 to 1-		<u></u>	
74	El-Katamya Check Point 5	0.2 days				THE STREET	PA 1[25%] 02/05	MALLONSON PLANA					
75	El-Katamya Check Point 6	0.2 days				11 - 2000 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1		PÅ 1[25%] 09/05 [[25%]	Mind or an incident			
92	El-Katamya Check Point 7	0.2 days	and the second second			er er skille erreteringer		B-1 - 1990 - 1990 - 1980	#	16/05	- Andrews - Inc.		
12	El-Katamya Check Point 8	0.2 days	oos o id sanharenhaan dishaa	·	<u>.</u>	ng lipengal commung pagalana bahlan	11	HIRE ANDROL ALTONOMY THE			23/05		
78	El-Katamya Check Point 9	0.2 days	10									30/02	-
=	Rog ai	38.25 days	PA 1[25%] 05/04 [PA 1[25%]	PA 1[25%] 19/04		PA 1[25%] 03/05 	¥	PA 1[25%] 3/05 [PA 1[25%] 17/05]	24/05	31/05	- vo
12	Cairo/El-Fayom Desert Road 1	0.25 days	PA 1[25%] 05/04]			od to considerable	e seas	t and the standard		MALLE SANGER CO. of Sandy day Species and	· ····	· · · · · · · · · · · · · · · · · · ·	
€	Cairo/El-Fayom Desert Road 2	0.25 days		PA 1[25%]		TO LONG THE STATE OF THE STATE							
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₽	Task Name	Duration	TWITE SISMITMITESISM	10 Apr	VTFSSMT	TWITE SISMITWITE SISMITWITE SISMITWITE	01 May	08 May	08 May 15 May	TESSMT	22 May 29 May SISIMIT	May 3 M 1
14		0.25 days	MAT	,	PA 1[25%]			-	o and the second of the second	alkannos y colaboli — *		
12	Cairo/El-Fayom Desert Road 5	0.25 days				The second second	PA 1[25%] 03/05	· · · · · · · · · · · · · · · · · · ·	12411 Mars + 174 Mars 11 - 12 - 12 - 12		-	
5	Cairo/El-Fayom Desert Road 6	0.25 days				п г. г. по мануловую.		PA 1[25%] 10/05	1717 old 1 Million Della chalagean		-	
4	Cairo/El-Fayom Desert Road 7	0.25 days				INDICATE AND PARTY.		·	PA 1[25%] 17/05		-	
6	Cairo/El-Fayom Desert Road 8	0.25 days				an e speciel and speciel				24/05		
6	Cairo/El-Fayom Desert Road 9	0.25 days	THE STANFOLD OF			THE STREET, IN STREET, INSTRUMENT					31/05	-
8	Cairo/Alex. Desert Road	38.25 days	PA 1[25%] 05/04	PA 1[25%] 13/04 [%] PA 1[25%] 19/04 [[5	PA 1[25%] 03/05	PA 1[25%] 10/05 [PA 1[25%]	24/05	31/05	_
21	Cairo/Alex. Desert Road 1	0.25 days	PA 1[25%] 05/04 [infinit transferation as an		www.rsusbanan		Property in the second		
22	Cairo/Alex. Desert Road 2	0.25 days		PA 1[25%] 13/04 8	%]	ege allafat talam	····	COLUMN ST. TATA ST. AND	- In the second second		·	
ន	Cairo/Alex. Desert Road 3	0.25 days	· · · · · · · · · · · · · · · · · · ·	-	PA 1[25%]					- L ie de de co urse present		
24	Cairo/Alex. Desert Road 5	0.25 days				in	PA 1[25%] 03/05					
52	Cairo/Alex. Desert Road 6	0.25 days				output of the form		PA 1[25%] 10/05				
56	Cairo/Alex. Desert Road 7	0.25 days					·		PA 1[25%]			
22	Cairo/Alex. Desert Road 8	0.25 days	Maddistrict (Mark Mark) (A constraint			Loc 101 Microscope .				24/05		
						Aibaket				Sur OT 00	Cun A7603/00 A1-32 DM 1	
띪	ORT Schedule for Site Visits_ak				Prepared by:CAIP/VE	AIP/VE!				Sun O/VO	182.10.66/	Σ

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의	Task Name		WITHSSMINWI	F S S W I W	FISISIMI I IMIT	L S S IMI I MY	L S S W I MA	L O O IMI C O L	L O O IMI C O L	- M	2	-
8	Cairo/Alex. Desert Road 9	0.25 days				nd Sort a			TATIONAM STORE "T		31/05	_
68	El-Tibben Traffic Dept.	38.25 days	PA 1[25%] 05/04	PA 1[25%]	PA 1[25%] 19/04		PA 1[25%] 03/05 	PA 1[25%] 10/05 [PA 1[25%]	24/05	31/05	
8	El-Tibben Traffic Dept.	0.25 days	PA 1[25%] 05/04					• · · · · · · · · · · · · · · · · · · ·	**************************************	TO COMPANY AND THE SECOND		<u>.</u>
56	El-Tibben Traffic Dept.	0.25 days		PA 1[25%] 13/04						Manager Market 17 (1999)	-	
92	El-Tibben Traffic Dept.	0.25 days	•••	· ·	PA 1[25%] 19/04				onnes added al lay 13 Mag Mer y Alban	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
8	El-Tibben Traffic Dept.	0.25 days					PA 1[25%] 03/05	one transferre statement	· · · · · · · · · · · · · · · · · · ·	Front helion o nijerajemo (1 pt. 12 p		
28	El-Tibben Traffic Dept.	0.25 days						PA 1[25%] 10/05 [-Mar I. Mallan (Millian) I		
8	El-Tibben Traffic Dept.	0.25 days	··· - •· ····					AMARIT SOMETH SOMETHING	PA 1[25%]	III — MRAMONAN PROPERTIES		
8	Et-Tibben Traffic Dept. 8	0.25 days	t to colorer son archer			d			MINISTER STATEMENT S	24/05	 -	
97	ELTibben Traffic Dept. 9	0.25 days								Olik dala saliga sa paggasasa a paggasara	31/05	_
136	El-Hawamdya Traffic Dept.	38.25 days	PA 1[25%] 05/04 [PA 1[25%]	PA 1[25%] 19/04 		PA 1[25%] 03/05 [PA 1[25%] 10/05]	PA 1[25%] 17/05 [24/05	31/05	
137	El-Hawamdya Traffic Dept. 1	0.25 days	PA 1[25%] 05/04								Managere sensitives again and	
138	El-Hawamdya Traffic Dept. 2	0.25 days		PA 1[25%] 13/04 					er.			
139	El-Hawamdya Traffic Dept. 3	0.25 days		-	PA 1[25%] 19/04 							
								1 1 2 2				
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2	Task Name	Duration	TWTFSSMTWTFSSMTWTF	17 Apr SSMTWTF	24 Apr SSMTWTF	kpr17 Apr24 Apr01 May08 May15 May22 May29 MayMITWITESISMITWITESISMITWITESISMITWITESISMITWITESISMITWITESISMITWITESISMITWITESISMITWITESISMITWITESISMITWITESISMITWITESISMIT	08 May SSMTMTF	15 May SSMTWT	22 May 	29 May F S S M T
140	 	ys		-		PA 1[25%] 03/05				
141	1 El-Hawamdya Traffic Dept. 6	0.25 days	,			-	PA 1[25%] 10/05	on of the State of		
142	2 EI-Hawamdya Traffic Dept. 7	0.25 days						PA 1[25%]		- •
143	3 ELHawamdya Traffic Dept. 8	0.25 days	1000000 + to mad +		INSTITUTE OF THE STREET				24/05	-
144	4 Et-Hawamdya Traffic Dept. 9	0.25 days						SOUTH STATE OF STATE		3-1/05
49	Cairo/Alex. Agricultur Road	38.2 days	PA 1[25%] 06/04 [PA 1[25%]	PA 1[25%] 27/04	PA 1[25%] 04/05	PA 1[25%] 11/05]	PA 1[25%] 18/05	25/05	90/10
8	Cairo/Alex. Agricultur road 1	0.2 days	PA 1[25%] 06/04]						-	<u>.</u>
52	Cairo/Alex. Agricultur road 3	0.2 days		PA 1[25%] 20/04				e walanda dan masana		
25	Cairo/Alex. Agricultur road 4	0.2 days			PA 1[25%]		**************************************			
53	Cairo/Alex. Agricultur road 5	0.2 days	1 10000000 Amod			PA 1[25%] 04/05		- AAAAAA		
22	Cairo/Alex. Agricultur road 6	0.2 days	No				PA 1[25%]		THE STATE OF THE S	
22	Cairo/Alex. Agricultur road 7	0.2 days						PA 1[25%] 18/05 [
%	Cairo/Alex. Agricultur Road 8	0.2 days			 .				25/05	
57	Cairo/Alex. Agricultur Road 9	0.2 days			···········	 -				01/08
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2	Tack Name	Duration	103 Apr 10 Apr 17 Apr 17 Apr 17 Apr 17 Apr 18 SIMITWITE SISMITWITE	17 Apr SSMTWTF	24 Apr SSMTWT	24 Apr 22 Apr 61 May 68 May 15 May 29 May 29 May 29 May 29 May 28 May 29	08 May S S M T W T F	15 May SSMTWTF	22 May SSM TWT	29 May
88	Sho	š	PA 1[25%]	PA 1[25%] 20/04	PA 1[25%] 27/04	PA 1[25%] 04/05	PA 1[25%] 11/05	PA 1[25%] 18/05 	25/05	01/06
66	Shobra (Abood) traffic Dept. 1	0.2 days	PA 1[25%] 06/04			·				
9	Shobra (Abood) traffic Dept. 3	0.2 days		PA 1[25%] 20/04		****		····		
101		0.2 days			PA 1[25%] 27/04	<u>.</u>		- Andrew Construction	_	<u>-</u>
102	Shobra (Abood) traffic Dept. 5	0.2 days			n o o o o o o o o o o o o o o o o o o o	PA 1[25%] 04/05				
103	Shobra (Abood) traffic Dept. 6	0.2 days			· International Actions		PA 1[25%] 11/05		٠	-
፯	Shobra (Abood) traffic Dept. 7	0.2 days						PA 1[25%]		
1 05	Shobra (Abood) traffic Dept. 8	0.2 days							25/05	
106	Shobra (Abood) traffic Dept. 9	0.2 days	and the second							61/06
163	Banha Traffic Dept.	38.2 days	PA 1[25%] 06/04	PA 1[25%] 20/04	PA 1[25%] 27/04 [PA 1[25%] 04/05 [PA 1[25%] 11/05 [PA 1[25%] 18/05]	25/05	90/10
25	Banha Traffic Dept. 1	0.2 days	PA 1[25%] 06/04 							
165	Banha Traffic Dept. 3	0.2 days	100000000000000000000000000000000000000	PA 1[25%] 20/04				Mo (MAI), colonol (con con con page		
166	Banha Traffic Dept. 4	0.2 days			PA 1[25%] 27/04			**************************************		
167	Banha Traffic Dept. 5	0.2 days				PA 1[25%] 04/05				de propio del pro-
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2	Tack Name	Duration	17 Apr 10 Apr 17 Apr 24 Apr TWITE SISMITWITE SISMITWITE SISMITWITE	T F S S M T W T F	24 Apr	01 May	01 May 08 May 15 May 22 May 29 May SISIMITINITIF SISIMITIMITIF SISIMIT	15 May	22 May	29 May
168		, X					PA 1[25%]	mattrib to thinker		
169	Banha Traffic Dept. 7	0.2 days	** .					PA 1[25%] 18/05]	-	
170	Banha Traffic Dept. 8	0.2 days					111 pe de la casa da casa		25/05	
171	Banha Traffic Dept. 9	0.2 days							_	01/08
172	Kalyob Traffic Dept.	38.2 days	PA 1[25%] 06/04	PA 1[25%] 20/04	PA 1[25%] 27/04	PA 1[25%] 04/05	PA 1[25%] 11/05	PA 1[25%] 18/05	25/05	01/08
173	Kalyob Traffic Dept. 1	0.2 days	PA 1[25%] 06/04 [·	
174	Kalyob Traffic Dept. 3	0.2 days	· ·	PA 1[25%] 20/04			THE STATE OF THE S		-	
175	Kalyob Traffic Dept. 4	0.2 days		······································	PA 1[25%] 27/04 [
176	Kalyob Traffic Dept. 5	0.2 days		***************************************		PA 1[25%] 04/05	an an and Marka Labora			
177	Kalyob Traffic Dept. 6	0.2 days			Mark-odja o o o o o		PA 1[25%]	· valendor · · · · · · · · · · · · · · · · · · ·	M AN	
178	Kalyob Traffic Dept. 7	0.2 days				MI 1	NATION OF THE ASSESSMENT OF TH	PA 1[25%]	I I had will don't a	
179	Katyob Traffic Dept. 8	0.2 days						NAMES IN Identitudes III .	25/05	
180	Kalyob Traffic Dept. 9	0.2 days	e ver er elementeksis	· · · · · · · · · · · · · · · · · · ·				or construction of the con		01/06
181	Shoubra El-Khema Traffic Dept.	38.2 days	PA 1[25%] 06/04 	PA 1[25%] 20/04 [PA 1[25%] 27/04	PA 1[25%]	PA 1[25%]	PA 1[25%]	25/05	01/08
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Duration					03 Apr	10 Apr	17 Apr	24 Apr	01 May)8 May	15 May	22 May	29 May
D.2 days Description Description Description D.2 days Description Description D.2 days Description Descrip	ō	Task	Duration	TIMITIF	SSMTWTF	SSMTWT	FISIMITIMIT	FISIMITM	VIFSSM	TWTFS	SISIMITIMITIE	SISIMITIMITIE	SSMITMIT	FSSM
0.2 days	182		0.2 days		PA 1[25%]								· va and constitution	<u>-</u> .
0.2 days	183		0.2 days				PA 1[25%] 20/04							
0.2 days	184		0.2 days					PA 1[25]	· · · · · · · · · · · · · · · · · · ·	. To all tables on the second graph			**************************************	
0.2 days	185		0.2 days		INITI TAPAMA IN			· · · · · · · · · · · · · · · · · · ·	PA 1	[25%]		-		
0.2 days PA 125% PA	186		0.2 days		laboros a district de la de			eteoriet tombut at hisot	annata a ta t a 1941 t		PA 1[25%]			
Taffic 0.2 days PA 1[25%] PA 1[25%	187		0.2 days		21 14 31 100 Manual 1			del a cheminal Made del e ca		and the second s		PA 1[25%] 18/05	galanga nganggan nganggan ng sa s	
PA 1[25%] PA 1	88	-	0.2 days		14140 - 11 - 11 - 11 - 11 - 11			5316 - 205 - 11 × 1051 - 205		TO BARREST MARKETERS TO SE			25/05	
ept. 33.25 days PA 1[25%] PA	189		0.2 days					e i i monta i santa a santa a	·	SST Fabric St. 1 Tablesgow , securities on				94/08
Dept. 0.25 days PA 1[25%] PA 1[25%] Dept. 0.25 days 14/04 [127		33.25 days		PA 1[25%] 07/04	PA 1[25% 14/04		~	ö	1 1[25%] 5 [PA 1[25%] 12/05		28/05	. <u> </u>
Dept. 0.25 days PA 1[25%] Dept. 0.25 days PA 1[25%] Dept. 0.25 days PA 1[25%] Dept. 0.25 days 0.00	128		0.25 days		PA 1[25%] 07/04	a .		SERVITA CONTRACTOR STATE OF A SERVICE AND A	· · · · · · · · · · · · · · · · · · ·	MANAMARIA I Additiva jąca mag		had harris and an all popularis so super-	· TURTUR SONIAL	
Dept. 0.25 days PA 1[25%] Dept. 0.25 days 0.25 days Dept. Drawned by CARDAFT	129		0.25 days		tost oddeld daksondrom von - po	PA 1[25% 14/04 [wo to		.,			· · · · · · · · · · · · · · · · · · ·	
Dept. 0.25 days PA 1[25%] Dept. 0.25 days	130		0.25 days				PA 1[25% 21/04			***************************************		I'' Mak tumo op ;		The second of th
Dept. 0.25 days	131	El-Sarayat Traffic Dept.	0.25 days					PA 1[2 28/04]	12%]			Manager and American		
	132	ļ	0.25 days						PA 05/05	1[25%]		*** * *********************************		
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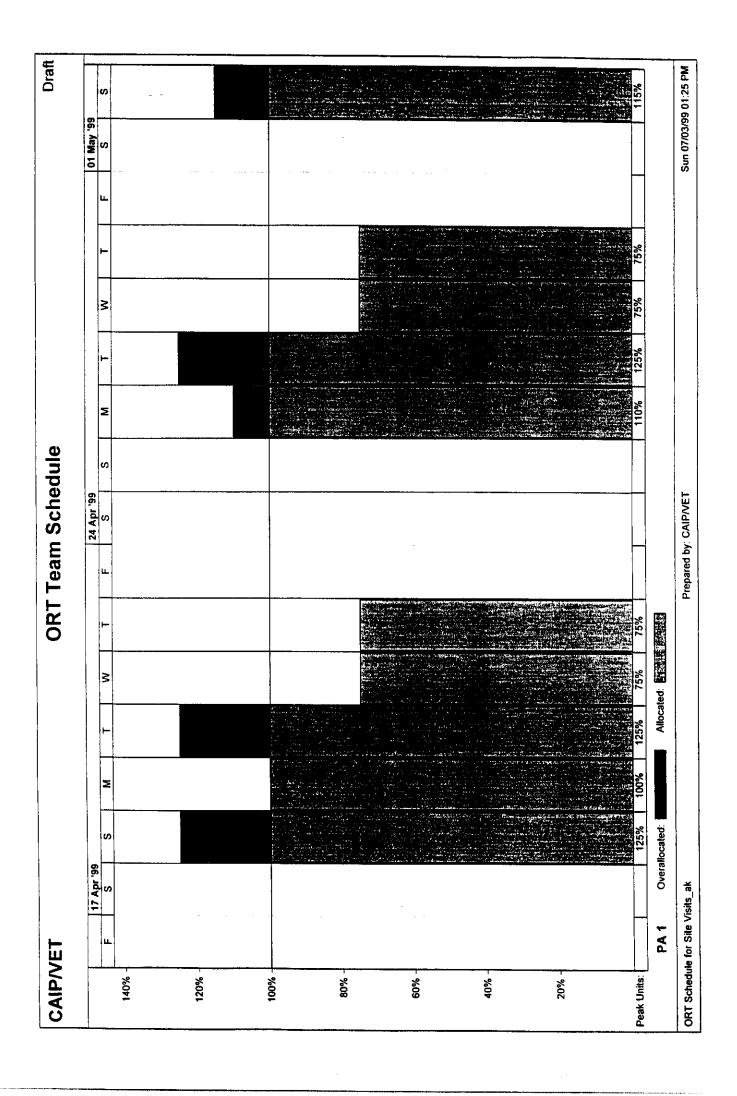
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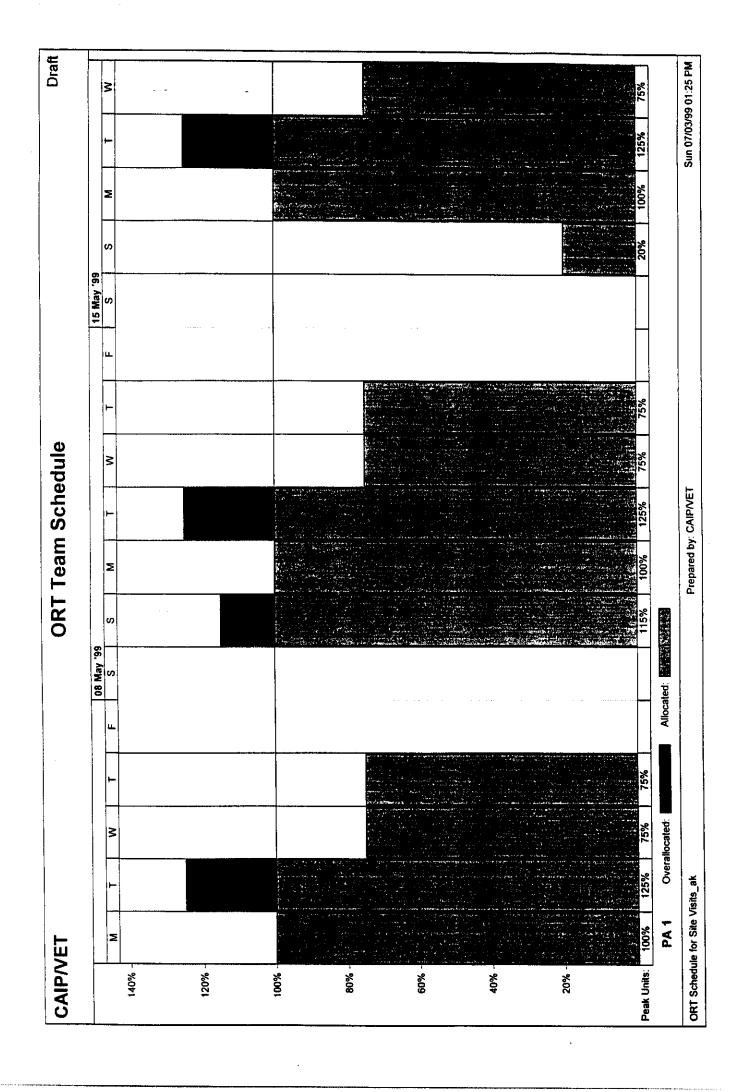
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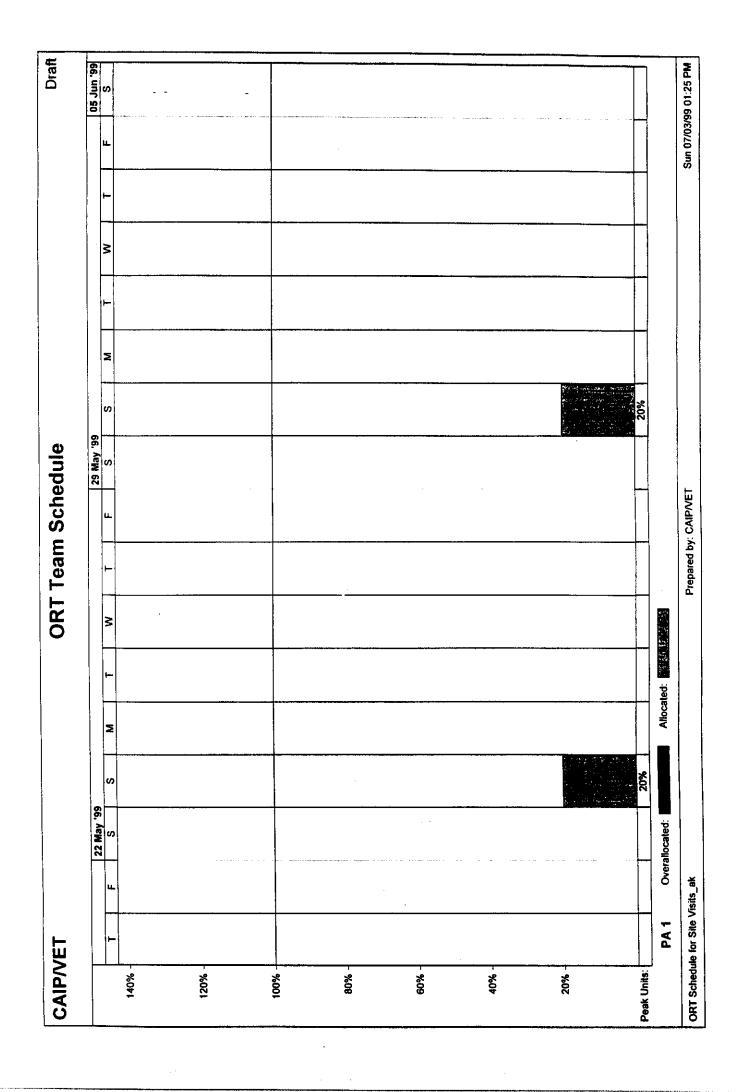
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Prepared by:CAIP/VET

ORT Schedule for Site Visits_ak







Attachment 3

ORT Support Requirements & Data Processing



Misr Helwan Road. Bldg. 30 Maadi. Carro. Egypt Tel.: 350-7573 / 351-6134 / 375-1469 375-0954 / 375-1245

Fax: 351-5137

E-Mail carp@intouch.com

CAIRO AIR IMPROVEMENT PROJECT Managed by Chemonics Consortium مشسروع تحسسين هسواء القاهسرة الدارة مجمسسوعة كيمونكسسس

February 18, 1999

Dr. Mohamed El Zarka Head of Environmental Quality Sector Egyptian Environmental Affairs Agency 30 Misr Helwan Road - Maadi

Dear Dr. El Zarka:

We are pleased that the EEAA ORT support group has been established and that you now have the manpower to manage this effort. This is a great start to building the institutional capacity within EEAA required to manage VET programs and presents an excellent opportunity to begin data entry and manipulation of the database to produce routine reports on the ORT program.

As you know, CAIP is developing a test results database for the ORT data and would like to assist your staff in initiating this effort as part of their duties. Data entry is designed to select and record either the Tune-Up Phase I results or ORT data since you may desire to combine both sets of results. This will allow the EEAA ORT unit to also assume the entry of the service station data on the same machine, as we agreed some time ago.

Our staff has developed the specifications for the required data processing resources in Attachment 1.

Please review the reports in Attachment 2, which are examples, with fabricated data, of six reports we are developing and which should provide a base for your continuing assessment of the ORT mission. These six basic reports may be run for the entire data set for the period desired to show findings, or by specific sites to allow EEAA to better manage the work force and determine unit productivity, etc. If you have any suggestions regarding these outputs, please let us know as soon as possible.

In order to handle the initial data generated since the ORT launch, and to allow sufficient time for EEAA to acquire the data processing resources. CAIP is prepared to begin ORT data processing on an interim basis. We will finalize the data entry and reporting software, establish the database temporarily on one of our machines, and perform the data entry and analysis until March 31, 1999. By that time EEAA should acquire the needed equipment and be certain that an appropriate member of your current ORT staff has spent adequate time with the VET staff to understand and assume the test result processing tasks.



Dr. Mohamed El Zarka February 18, 1999 Page 2

You may wish to designate one of your ORT headquarters' staff as the lead individual to work directly with the VET team to finalize this critical step in the ORT program.

We are pleased that the ORT program is off to a good start, and even more pleased that this provides a genuine opportunity to demonstrate a sustainable transfer of activities from the project to EEAA. Please call John Pachuta or me if you have any questions on this matter. Thank you for your assistance.

Regards,

Stasys V. Rastonis

Attachments

cc: Elzadia Washington, USAID

ATTACHMENT 1

Hardware:

- Pentium PC (233 MHz minimum) with 64MB memory, 4.3GB hard disk, 1.44MB floppy
- Ethernet network interface card (NIC) 100MHz
- 14" VGA color monitor
- English/Arabic Keyboard

Operating System: Win95 (Arabic Edition)

Software requirements: MS Office (Professional Edition; MS Access Included)

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Sample ORT Reports

MONTHLY ON ROAD TESTING SUMMARY REPORT BY MODEL YEAR From 01-01-1999 thru 31-01-1999 Pass/Fail Rates - Network-Wide Summary, All Vehicles

REPORT 01

		# overall		# overall	
year	total tests	pass	% pass	fail	% fail
<1970	12	7	58.3	5	41.7
1970	23	16	69.6	7	30.4
1971	32	21	65.6	=	34.4
1972	35	27	77.1	8	22.9
:	:	:	:		:
•	:	:	:	:	:
:	:	:	:	:	:
:	:	:	:	::	:
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::	:			:	:
1998	110	95	83.6	::@	
1999	93	87	93.5	ဖ	6.5
Total	1456	1209	83.0	247	17.0

MONTHLY ON ROAD TESTING SUMMARY REPORT BY MODEL YEAR From 01-01-1999 thru 31-01-1999
Pass/Fail by Components - Network-Wide Summary, All Vehicles

	exhaust					onacity				
year	gas tests	pass	fail	% pass	%fail	tests	bass	fail	% Dass	%fail
<1970	10	9	7	0.09	40.0	2	-	_	50.0	50.0
1970	20	14	9	70.0	30.0	ю	0	. —	66.7	9 6
1971	27	18	6	2.99	33.3	יני	1 (*	۰ ،) () () (
1972	30	23	7	7.97	23.3	, rc	, 4	V : V-	9:0	0.00 0.00
	:	:	. :	:	:	:	:	. :	3	70.0
:	:	:	:	:	:	:	:	:	:	
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966	 	- 12 - 12 - 12	9	82.4	17.6	6	17	7	83.6	16.4
1999	81	76	5	93.8	6.2	12	12	: 	93.5	
Total	1001	813	188	81.2	18.8	455	396	59	87.0	13.0

MONTHLY ON ROAD TESTING SUMMARY REPORT BY MODEL YEAR From 01-01-1999 thru 31-01-1999 Form Paitures for Exhaust Gases Only - Network-Wide Summary

REPORT 03

	exhaust			% fail	% fail	% fail
year	gas tests	% pass	%fail	HC only	CO only	HC+C0
<1970	12	58.3	41.7	24.2	15.7	1 8
1970	23	9.69	30.4	17.2	11.3	0
1971	32	65.6	34.4	20.1	10 1	4.2
1972	35	77.1	22.9	14.2	6.1	2.6
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1999	93	93.5	6.5	3.8 3.8	γ. (c.	6. 4.
Total	1001	81.2	18.8	11.2	1 02	n 6

MONTHLY ON ROAD TESTING SUMMARY REPORT BY MODEL YEAR From 01-01-1999 thru 31-01-1999 Pass/Fail by Year by Type

% fail	0.0	0.0	0.0	50.0)	-	100 0	0.0	16.7	0.0							:		5.0
% tail exhaust	25.0	33.3	0.0	0.0	-		0.0	20.0	16.7	0.0				:!				:	120
% fail	25.0	33.3	0.0	50.0		•	100.0	20.0	33.3	0.0		::			•		:	:	17.0
% pass	75.0	. 299	100.0	50.0	•	•	0.0	80.0	66.7	100.0				:	•			••••	83.0
fait	-	-	0	!	. 0	0	- 1 2		**	0		***************************************	::		::		::		247
pass	3	8		_	0	0	0	4	©	7	:::	::		:::	:::			:	1209
number tested	4	ന		7	0	0	2	ည	12	7		:	::						1456
Vehicle Type	passngr	taxi	t truck	med truck	hd truck	bus/van	m/c	passngr	taxi	It truck	:								
year	<1970			i			!	1971	:.	:::::::::::::::::::::::::::::::::::::::			•	::	:::::::::::::::::::::::::::::::::::::::	:			Total

Note: Vehicle classes to be adjusted to match field data.

MONTHLY ON ROAD TESTING SUMMARY REPORT BY MODEL YEAR From 01-01-1999 thru 31-01-1999 Pass/Fail by Standard by Type

							% fail	
	Vehicle	number					exhaust	% fail
year	Type	tested	pass	fail	% pass	% fail	gases	opacity
<1994	passngr	40	30	10	75.0	25.0	20.0	5.0
	taxi	35	28	7	80.0	20.0	13.0	202
:	It truck	0	7	က	70.0	30.0	20.0	10.0
!	med truck	22	21	4	84.0	16.0	12.0	40
:	hd truck	ro.	· က :	7	0.09	40.0	20.0	20.0
	bus/van	우! :	4	ဖ	40.0	0.09	0.0	0.09
	m/c	20	11	6	55.0	45.0	0.0	45.0
	Subtotal	145	5	41	71.7	28.3	19.8	8 5
1995+	passngr	20	40	10	0.08	20.0	20.0	0.0
i	taxi	120	œ:	40	66.7	33.3	16.7	16.7
1	I truck	20	20	0	100.0	0.0	0.0	0
	med truck	:::	::	:	: :			
:	hd truck		:	! :	. :			
	pns/van	:		:				
	m/c							
	Subtotal			:	:			
Total		1456	1209	247	83.0	17.0	12.0	50
						?	2.2	0.0

Note: Vehicle classes to be adjusted to match field data.

REPORT 06

MONTHLY ON ROAD TESTING SUMMARY REPORT BY MODEL YEAR From 01-01-1999 thru 31-01-1999 Failures for Exhaust Gases Only - By Vehicle Type

Vehicle exhaust % fail HC+CO HC+CO								
Type gas tests % pass %fail HC only CO only H passingr 12 58.3 41.7 24.2 15.7 taxi 23 69.6 30.4 17.2 11.3 It truck 35 77.1 22.9 14.2 6.1 hd truck 35 77.1 22.9 14.2 6.1 bus/van m/c m/c 6.1 6.1 sassingr 1001 81.2 18.8 11.2 7.0		Vehicle	exhaust			% fail	% fail	% fail
4 passngr 12 58.3 41.7 24.2 15.7 taxi 23 69.6 30.4 17.2 11.3 It truck 35 77.1 22.9 14.2 6.1 hd truck 35 77.1 22.9 14.2 6.1 bus/van m/c 81.2 14.2 6.1 passngr med truck med truck med truck bus/van m/c 81.2 18.8 11.2 7.0	year	Туре	gas tests	% pass	%fail	HC only	CO only	HC+CO
taxi 23 69.6 30.4 17.2 11.3 It truck 32 65.6 34.4 20.1 10.1 med truck 35 77.1 22.9 14.2 6.1 hd truck	1994	passngr	12	58.3	417	24.2	15.7	4.8
It truck		taxi	23	9.69	30.4	17.2	<u> </u>	- 6
med truck 35 77.1 22.9 14.2 6.1 hd truck m/c 6.1 6.1 6.1 Sub-Total Sub-Total 6.1 6.1 6.1 Sub-Total med truck 6.1 6.1 6.1 Bus/van m/c 6.1 6.1 6.1 Sub-Total 1001 81.2 18.8 7.0		It truck	32	65.6	34.4	20.4		
med truck 35 77.1 22.9 14.2 6.1 hd truck m/c 6.1 6.1 6.1 Sub-Total Sub-Total 6.1 6.1 Med truck Med truck 6.1 6.1 bus/van m/c 7.0 7.0 Sub-Total 1001 81.2 18.8 11.2 7.0			; ;) 	†	7.07	_ - 2	7.4
bus/van m/c Sub-Total passngr taxi It truck med truck hd truck hd truck hd truck bus/van m/c Sub-Total 1001 81.2 18.8 11.2 7.0		med truck	32	77.1	22.9	14.2	6.1	5.6
bus/van bus/van Sub-Total 8.0 - Total passngr 1001 sub-Total 81.2 18.8 11.2 7.0 7.0		nd truck	:::	:	:	:::	:	
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med truck hd truck bus/van m/c Sub-Total 1001 81.2 18.8 11.2 7.0		frick				:	:	::
med truck hd truck bus/van m/c Sub-Total 1001 81.2 18.8 11.2 7.0			:	:	:::	:	:	:
hd truck bus/van m/c Sub-Total 1001 81.2 18.8 11.2 7.0		med truck	:	::	:	-		:
bus/van m/c Sub-Total 81.2 18.8 7.0		hd truck	:					
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	otai		1001	81.2	18.8	11.2	7.0	0.6

Note: Vehicle classes to be adjusted to match field data.

Attachment 4

ORT Support Costs

Summary	Report

No.	Item		Cost
	Total Annual Running Cost of the		
	Analyzers (LE)	=	17920
	Total Annual Maintenance Cost of the		
	Analyzers (LE)	=	97200
	Running over head Cost (LE)	=	116320
	Total	=	231440

The Total Annual Cost of the ORT Programm (LE) = 231440

Assumptions:

- 1- Average Number of Tested Cars/hr = 5
- 2- Average Number of Working hrs/day = 5
 Number of field data collection Working
- 3- Days / Month = 20
- 4- Average Number of Working Analyzers /day = 25
- 5- Average Number of Tested
 Cars/yr. = 150000
- 6- 60 % compliance rate among tested vehicles = 90000

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Consumable Parts-Control Sheet

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Item Units	Gasoline Analyzers	alyzers	
	Units / Analyzer / year	Average Cost / Unit (LE)	Annual Cost/Analyzer (LE)
Printing Paper Roll	15	10	091
60 AMP battery	1	220	220
Filter kit	26	15	062
Total			092
Annual cost of the Gasoline Analyzers (LE) =	$ilyzers\;(LE) =$	16720	

	Diesel Analyzers	alyzers	
ltem	Units / Analyzer / year	Average Cost / Unit (LE)	Annual Cost/Analyzer (LE)
Printing Paper Roll	15	10	150
Annual Cost of the Diesel Analyzers (L)	esel Analyzers (LE) =	1200	V. 1.17

Total Annual Running Cost of the Analyzers (LE) =

17920

ORT Control Sheet

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	Maintenance (tenance Control Sheet	
The prices are according to the tune-up P	to the tune-up Phase I		
		j	•
Item	Times / year / Analyzer	Cost / I ime	Total Cost
Service call fees	18	150	2700
Analyser Calibration	2	300	009
Cost of each hour			
required in addition to			
the first hour	9	50	300
Total			0098

97200

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Over Head Cost Control Sheet

Draft

Item	units / year	Cost / Unit (LE)	Total Cost (LE)	(E)
Thanks cards	000'06	0.27		24300
ORT Flyers	00009	1		60000
Log. Book	3000	10		30000
Name Tags	20	35		28
Sleeve Cover	09	10		600
Yellow Fabric	09	2		120
Stationary Material	40	15		600
Total			116320	
				:
Training Activities (Video - Photograph - Renting Analyzers) Optional	7	1500		1500

Attachment 5

EEAA / Oil Company Analyzer Loan Program

Caltex

Station	Address	Analyzer Description	Date	Service Contract Ends	SiN	Components
						Electricity Cable
_		Technotest 490 Diesel Analyzer	3-Jun-98	30-Nov-98	151313	Remote Control Unit
Socy El Caron	Geer El Sues St. next to CTA Garade					RPM Sensor Cable
Gest Et sues	פפו בו-סופי פון וופעו וח כווע פון פפו					Electricity Cable
		Technotest 488 Gas Analyzer	3-Jun-98	30-Nov-98	5102	RPM Sensor
						Oil Temperature Cable
						Electricity Cable
Makram Choid	Makram Ebeid St. Nasr City	Onis 40 Gas Analyzer	3. hm.98	30.Nov.98	69111140002	RPM Sensor Cable
	manant Epot Of Table Off	chart can can cando	2		200011100	Oil Temperature Cable
						Remote Control Unit
						2 RPM Sensor cables
						RPM Sensor
Sheraton Heliopolis	Sheraton Heliopolis El-Matar St. Orouba, Heliopolis	Lucas Hartidge Diesel Analyzer	15-Jun-98	12-Dec-98	527	220V to 12V Transformer
						Cleaning Brush
						Remote Control Unit

CO-0P

				L TILL C	14/3	
Station	Address	Analyzer Description	Date	Service Contract Ends	N/O	Components
						Electricity Cable
		Technotest 490 Diesel Analyzer	8-Jun-98	5-Dec-98	151313	Remote Control Unit
·	3					RPM Sensor Cable
El-Khalatawi	Khalarawi St. Shobra					Electricity Cable
		Technotest 488 Gas Analyzer	8-Jun-98	5-Dec-98	5102	RPM Sensor
						Oil Temperature Cable
						Light Sensor
						Sample Probe
						Talipipe probe
		Technotest 490 Diesel Analyzer			G5N-151319	RPM Sensor Cable
			•			Electricity Cables
El-Saf	54 El-Saf St. Autostrad. Tebbin		3-Jun-98	30-Nov-98		Remote Control Unit
						Cleaning Brush
						RPM Sensor Cable
		Technolest 488 Gas Analyzer			D5N-5106	Oil Temperature Cable
						Tailpipe Probe
						Elecricity Cables
						RPM Sensor Cable
	C# Constitution of the control of th	Tochantort 489 Car Analyzor	4 1,10 00	1.Dec 08	5100	Oil Temperature Cable
Maadi	El-Naroura Sq. , Maadi Entrance #2	eciliotest 400 Gas Arianyzei	08-100-4	06-220-1	2	Tailpipe Probe
						Elecricity Cables
						Electricity Cable
1		On the Application	00 011	6 Dec 08	691114004	RPM Sensor Cable
Malik Faisal	/ Malik Fatsal St. Haram	Opus 40 Gas Arialyzer	08-11DC-8	0-0-0-0-0	100011160	Oil Temperature Cable
						Remote Control Unit
						Oil Temperature Probe
Manial	El-Manial St	Sun MGA 1200 Gas Analyzer	9-Jun-98	6-Dec-98	15B13673	Tallpipe Probe
						RPM Sensor
						Oil Temperature Probe
Mosadak	1 Mosadak St. Dokki	Sun MGA 1200 Gas Analyzer	4-Jun-98	1-Dec-98	15B13672	Tailpipe Probe
						RPM Sensor
						2 RPM Sensor cables
						RPM Sensor
Mostorod	Mubarak St, Teret El-Imailiyah, Sawah	Lucas Hartidge Diesel Analyzer	15-Jun-98	12-Dec-98	283	220V to 12V Transformer
						Cleaning Brush
						Remote Control Unit
						Oil Temperature Probe
	i i	TOTAL COOL ACTION	00 217	6 Dec 08	15B13674	Tollaine Broke
Sawah	El-Sawan St.	Sun MGA 1200 Gas Analyzer	08-1ID5-8	0-0-0-0	+ 200100	rample Prope
						RPM Sensor

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	A.A.	Applicat Decription	Date	Service Contract Ende	N/U	Componente
COBBO	200 000					Permote Control 11mg
						Sellote Court Original
		Ones 40 Gas Analyzer			69/1/A001	Oil Temperature Probe
						Taitpipe Probe
	Salah Salam St Ain El Sira		30- Lin-98	27-Dec-98		RPM Sensor
All Cir Old	Salat Salat St, Salat Sila.		000	200-200-1-1		Remote Control Unit
		Onie 50 Diesel Analyzer			691110001	Oil Temperature Probe
						Tailpipe Probe
						RPM Sensor
			·			Oil Temperature Probe
Bab El- Louk	Corner of Tahrir and Nobar Streets	Technotest 488 Gas Analyzer	29-Jun-98	26-Dec-98	5107	Tailpipe Probe
						RPM Sensor
Et- Salam	Belbis Rd. Salam City	Refused to receive analyzer		Waiting for a Gas Analyzer	lyzer	
						RPM Sensor
						220V to 12V Transformer
El-Ballon	26th of July St.	Lucas Hartidge Diesel Analyzer	29-Jun-98	26-Dec-98	280	Cleaning Brush
						Remote Control Unit
						9 V Battery
						Oil Temperature Probe
Helwan	32 Ragheb St. Helwan	Sun MGA 1200 Gas Analyzer	30-Jun-98	27-Dec-98	15B13632	Talipipe Probe
						RPM Sensor
						Oil Temperature Probe
Mena House	Al-Ahram St. Giza	Sun MGA 1200 Gas Analyzer	29-Jun-98	26-Dec-98	15B13684	Talipipe Probe
						RPM Sensor
						Oil Temperature Probe
		Technotest 488 Gas Analyzer	29-Jun-98	26-Dec-98	5110	Tailpipe Probe
						RPM Sensor
Sudan	Suadan St. Mohandesseen					Sample Probe
						Tallpipe probe
		Technotest 490 Diesel Analyzer	29-Jun-98	26-Dec-98		RPM Sensor Cable
						Electricity Cables
						Remote Control Unit

Misr Petroleum

Station	Address	Analyzer Description	Date	Service Contract Ends	N/S	Components
						Oil Temperature Probe
Roro El. Zamalak	Rora Et. Zamatek	Sup MGA 1200 Gas Apakzer	8. lim.08	5. Dec. 08	15013614	Tailpipe Probe
			3		1001001	RPM Sensor
					į	Printer
						Remote Control Unit
		Opus 50 Diesel Analyzer	3-Jun-98	30-Nov-98	691/1D003	Opacity Meseament Unit
		,				Oil Temperature Cable
Hay El- Sades	42 Garb Elestad St, Nasr City					Electricity Cable
						Electricity Cable
		Opus 40 Gas Analyzer	3-Jun-98	30-Nov-98	69/1/A003	Oil Temperature Cable
						RPM Sensor Cable
						Remote Control Unit
						Remote Control Unit
		Technotest Diesel Analyzer			5108	Electricity Cable
,			,			RPM Sensor
Ramsis	109 Ramsis St.		7-Jul-98	3-Jan-99		Electricity Cable
		Technotest Gas Analyzer			151317	Tallpipe Cable
						RPM Sensor Cable
						Oil Temperature Cable
						Electricity Cable
Roxi	Khalifa El-Maamoun St. Roxi So.	Technotest Gas Analyzer	12-fun-98	9-Dec-98	5115	Tailpipe Cable
					2	RPM Sensor Cable
						Oil Temperature Cable
				,		Remote Control Unit
		lechnotest Diesel Analyzer	3-Jun-88	30-Nov-98	151307	Electricity Cable
(RPM Sensor
Sam	Sain Square, Heiloponis.		•			Efectricity Cable
		Technotest Gas Analyzer	3-Jun-98	30-Nov-98	5114	Tailpipe Cable
		•				RPM Sensor Cable
						Oil Temperature Cable

Mobil Oil

Station	Address	Analyzer Description	Date	Service Contract Ends	S/N	Components
						RPM Sensor
Katameva		Licas Hartidoe Diesel Analyzer	3-Feb.99	2-AII0-99	HR172A0525	220V to 12V Transformer
natallic ja			3		0700U7 (11)	Cleaning Brush
						Remote Control Unit
						RPM Sensor
;	:				. :	Oil Temperature Sensor
New Maadi	New Maadi Autostrade, New Maadi, Maadi	MGA Sun 1200 Gas Analyzer	3-Feb-99	2-Aug-99	15B13614	Analyzer Stand
						Electricity Cables
						Taitpipe probe

3/7/99

		Shell				
Station	Address	Analyzer Description	Date	Service Contract Ends	N/S	Components
						RPM Sensor
i		+ + + + + + + + + + + + + + + + + + +	00 400	32 4::-	6103	Oil Temperature Sensor
EF-Nast	El- Masi Ku, Masi City	recallionest 400 das Allaiyzei	66-03 1-07	66-90A-22	2012	Tailpipe probe
						Electricity Cables
						RPM Sensor
		Technotest 488 Gae Analyzer			5116	Oil Temperature Sensor
		127 in 12			2	Tailpipe Probe
						Electricity Cables
El- Rodah	31 El- Rodah St. Manial		3-Jun-98	30-Nov-98		Sample Pick-up Hose
**						RPM Sensor
		Technotest 490 Diesel Analyzer			151308	Tailpipe probe
						Remote Control Unit
						12 V Input Cable
						Analyzer Stand
						Printer
		Sun MGA 1200 Gas Analyzer			15B13669	Talipipe probe
						RPM Sensor
						Oil Temperature Sensor
Malik Faisal	7 Malik Faisal St. Haram		4-Jun-98	1-Dec-98		Analyzer Stand
						Electricity Cables
		Opus 50 Diesel Analyzer			69111A004	Tailpipe probe
			•			RPM Sensor
			-			Oil Temperature Sensor
						Remote Control Unit
						Analyzer Stand
						Printer
		Incas Hartidge Deisel Analyzer			HR172-A0534	RPM Sensor
						RPM Display
						Remote Control
Misr Helwan/Maadi	Misr Helwan/Maadi Misr Helwan Agricultural Kd. Maadi		3-Jun-88	30-NOV-98		Tailpipe Probe
						Analyzer Stand
						Oil Temperature Cable
		Sun MGA 1200 Gas Analyzer			15813611	RPM Sensor
						Talipipe Probe
			-	_		